

Title (en)
PHARMACEUTICAL COMPOSITIONS OF ERYTHROPOIETIN

Title (de)
PHARMAZEUTISCHE ZUSAMMENSETZUNGEN VON ERYTHROPOIETIN

Title (fr)
COMPOSITION PHARMACEUTIQUE D'ERYTHROPOIETINE

Publication
EP 1181036 A4 20040421 (EN)

Application
EP 00921929 A 20000407

Priority
• US 0009414 W 20000407
• US 12859699 P 19990409

Abstract (en)
[origin: WO0061169A1] The present invention provides aqueous pharmaceutical formulations of erythropoietin that are free of human serum blood products, stabilized with a quantity of an amino acid and a sorbitan mono-9-octadecenoate poly(oxy-1,2-ethanediyl) derivative. The present invention also provides aqueous stable, preserved pharmaceutical formulations of erythropoietin that contain an antimicrobial quantity of cresol and a quantity of an amino acid.

IPC 1-7
A61K 38/16; A61K 47/00

IPC 8 full level
A61K 9/00 (2006.01); **A61K 38/18** (2006.01); **A61K 47/04** (2006.01); **A61K 38/22** (2006.01); **A61K 47/00** (2006.01); **A61K 47/10** (2006.01); **A61K 47/12** (2006.01); **A61K 47/14** (2006.01); **A61K 47/16** (2006.01); **A61K 47/18** (2006.01); **A61K 47/26** (2006.01); **A61K 47/42** (2006.01); **A61P 7/06** (2006.01); **A61P 7/08** (2006.01); **A61K 47/02** (2006.01)

CPC (source: EP KR US)
A61K 9/0019 (2013.01 - EP US); **A61K 38/1816** (2013.01 - EP US); **A61K 38/22** (2013.01 - KR); **A61K 47/10** (2013.01 - EP US); **A61K 47/183** (2013.01 - EP US); **A61K 47/42** (2013.01 - EP US); **A61P 5/00** (2018.01 - EP); **A61P 7/06** (2018.01 - EP); **A61P 7/08** (2018.01 - EP); **A61P 35/00** (2018.01 - EP); **A61K 47/02** (2013.01 - EP US); **A61K 47/12** (2013.01 - EP US); **A61K 47/26** (2013.01 - EP US)

Citation (search report)
• [X] EP 0528313 A1 19930224 - BOEHRINGER MANNHEIM GMBH [DE]
• [PX] EP 0909564 A1 19990421 - CHUGAI PHARMACEUTICAL CO LTD [JP]
• [X] EP 0528314 A1 19930224 - BOEHRINGER MANNHEIM GMBH [DE]
• [X] EP 0306824 A2 19890315 - BOEHRINGER MANNHEIM GMBH [DE]
• [X] WO 9715288 A2 19970501 - BOEHRINGER MANNHEIM GMBH [DE], et al
• See also references of WO 0061169A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0061169 A1 20001019; AR 029623 A1 20030710; AT E401908 T1 20080815; AU 4218600 A 20001114; AU 775041 B2 20040715; BG 106046 A 20020531; BR 0010665 A 20040309; CA 2369444 A1 20001019; CA 2369444 C 20090818; CN 1165339 C 20040908; CN 1354669 A 20020619; CY 1108418 T1 20140409; DE 60039598 D1 20080904; DK 1181036 T3 20081124; EP 1181036 A1 20020227; EP 1181036 A4 20040421; EP 1181036 B1 20080723; ES 2308978 T3 20081216; HK 1041445 A1 20020712; HK 1041445 B 20090703; HU P0201068 A2 20020828; HU P0201068 A3 20021028; IL 145816 A0 20020725; JP 2002541208 A 20021203; KR 100740794 B1 20070720; KR 20020016770 A 20020306; MX PA01010208 A 20030721; NO 20014893 D0 20011008; NO 20014893 L 20011115; NZ 515380 A 20031031; PL 203797 B1 20091130; PL 351837 A1 20030616; PT 1181036 E 20081003; RU 2225221 C2 20040310; TR 200103788 T2 20020521; US 2004248797 A1 20041209; US 6696056 B1 20040224; ZA 200109236 B 20031208

DOCDB simple family (application)
US 0009414 W 20000407; AR P000101631 A 20000410; AT 00921929 T 20000407; AU 4218600 A 20000407; BG 10604601 A 20011024; BR 0010665 A 20000407; CA 2369444 A 20000407; CN 00808504 A 20000407; CY 081101147 T 20081016; DE 60039598 T 20000407; DK 00921929 T 20000407; EP 00921929 A 20000407; ES 00921929 T 20000407; HK 02102987 A 20020419; HU P0201068 A 20000407; IL 14581600 A 20000407; JP 2000610501 A 20000407; KR 20017012906 A 20011009; MX PA01010208 A 20000407; NO 20014893 A 20011008; NZ 51538000 A 20000407; PL 35183700 A 20000407; PT 00921929 T 20000407; RU 2001130142 A 20000407; TR 200103788 T 20000407; US 54547900 A 20000407; US 77592804 A 20040210; ZA 200109236 A 20011108